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JL

CLAIM AMENDMENTS

Claims 1-20 are pending. Claims 1, 13 and 17 have been amended. Claim 8 has been

canceled.

1   1. (Currently Amended) A method for controlling network digital broadcasting service,

2   comprising steps of:

3   directly requesting, at a client, a digital broadcasting server for a session connection, and

4   establishing a session by receiving a confirmation message for the session connection from the

5   digital broadcasting server; and

6   directly requesting, at the client, the digital broadcasting server for a channel change, and

7   changing a channel by receiving a confirmation message for confirming the channel change from the

8   digital broadcasting server,

9   wherein a message for requesting the channel change and the confirmation message for

10   confirming the channel change each include a DSM-CC (Digital Storage Media-Command and

11   Control) message header field, the message for requesting the channel change is a

12   ProgramSelectRequest message including: the DSM-CC (Digital Storage Media-Command and

13   Control) message header field, a Session ID (Identification) field, a STB (Set Top Box) status field,

14   a broadcast ProgramId field, and a Client ID field, and the ProgramSelectRequest message is

15   transmitted from the client to the digital broadcasting server.

1   2. (Original) The method according to claim 1, further comprising:

2   receiving, at the client, a message for checking a status of the client from the digital

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3   broadcasting server, and directly delivering a confirmation message for checking the status of the

4   client to the digital broadcasting server.

1   3. (Original) The method according to claim 1, further comprising:

2   directly requesting, at the client, the digital broadcasting server for a session termination and

3   terminating a session by receiving a confirmation message for the session termination from the

4   digital broadcasting server.

1   4. (Original) The method according to claim 1, further comprising:

2   directly requesting, at the digital broadcasting server, the client for a session termination and

3   terminating a session by receiving a confirmation message for the session termination from the

4   client.

1   5. (Original) The method according to claim 1, further comprising the step of directly

2   receiving, at the client, a session termination request from the digital broadcasting server, and

3   terminating a session if the client cannot transmit a response to the session termination request from

4   the digital broadcasting server.

1   6. (Original) The method according to claim 1, wherein a protocol between the client and

2   the digital broadcasting server is a TCP/IP (Transmission Control Protocol/Internet Protocol).

1   7. (Original) The method according to claim 1, wherein a message for requesting the session

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2   connection is a SessionSetupRequest message including: a DSM-CC (Digital Storage

3   Media-Command and Control) message header field, a Session ID (Identification) field, a Reserved

4   field, a Client ID field, and a Server ID field, and the SessionSetupRequest message is transmitted

5   from the client to the digital broadcasting server.

1   8. (Canceled)

1   9. (Original) The method according to claim 2, wherein the message for checking the status

2   of the client is a ServerStatusRequest message including: a DSM-CC (Digital Storage

3   Media-Command and Control) message header field, a Reason field, a statusType field, a

4   resourceNumber field for showing a number of a resource whose status is wanted to be known, a

5   Reserved field, and a client ID field, and the ServerStatusRequest message is transmitted from the

6   digital broadcasting server to the client.

1   10. (Original) The method according to claim 3, wherein a message for requesting a session

2   termination is a ClientReleaseRequest message including: a DSM-CC (Digital Storage

3   Media-Command and Control) message header field, a session ID field, a Reason field, and a

4   ClientID field, and the ClientReleaseRequest message is transmitted from the client to the digital

5   broadcasting server.

1   11. (Original) The method according to claim 4, wherein a message for requesting a session

2   termination is a ServerReleaseRequest message including: a DSM-CC (Digital Storage

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3   Media-Command and Control) message header field, a session ID field, a Reason field, and a

4   ClientID field, and the ServerReleaseRequest message is transmitted from the digital broadcasting

5   server to the client.

1   12. (Original) The method according to claim 1, wherein the confirmation message for

2   confirming the session connection is a SessionSetupConfirm message including: a DSM-CC (Digital

3   Storage Media-Command and Control) message header field, a Session ID (Identification) field, a

4   response field, and a Server ID field, and the SessionSetupConfirm message is transmitted from the

5   digital broadcasting server to the client.

1   13. (Currently Amended) ~~The method according to claim 1, wherein~~ A method for

2   controlling network digital broadcasting service, comprising steps of:

3   directly requesting, at a client, a digital broadcasting server for a session connection, and

4   establishing a session by receiving a confirmation message for the session connection from the

5   digital broadcasting server; and

6   directly requesting, at the client, the digital broadcasting server for a channel change, and

7   changing a channel by receiving a confirmation message for confirming the channel change from the

8   digital broadcasting server,

9   wherein a message for requesting the channel change and the confirmation message for

10   confirming the channel change each include a DSM-CC (Digital Storage Media-Command and

11   Control) message header field, the confirmation message for confirming the channel change is a

12   ProgramSelectConfirm message including: the DSM-CC (Digital Storage Media-Command and

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13   Control) message header field, a Session ID (Identification) field, a response field, a broadcast

14   ProgramId field, and a Client ID field, and the ProgramSelectConfirm message is transmitted from

15   the digital broadcasting server to the client.

1   14. (Original) The method according to claim 2, wherein the confirmation message for

2   confirming the status of the client is a ServerStatusConfirm message including: a DSM-CC (Digital

3   Storage Media-Command and Control) message header field, a Response field, a statusType field,

4   a resourceNumber field for showing a number of a resource whose status is wanted to be known, a

5   resourseStatus field, and a client ID field, and the ServerStatusConfirm message is transmitted from

6   the client to the digital broadcasting server for confirming the status of the client.

1   15. (Original) The method according to claim 3, wherein the confirmation message for

2   confirming a session termination is a ClientReleaseConfirm message including: a DSM-CC (Digital

3   Storage Media-Command and Control) message header field, a session ID field, a response field, and

4   a ClientID field, and the ClientReleaseConfirm message is transmitted from the digital broadcasting

5   server to the client.

1   16. (Original) The method according to claim 4, wherein the confirmation message for

2   confirming a session termination is a ServerReleaseConfirm message including: a DSM-CC (Digital

3   Storage Media-Command and Control) message header field, a session ID field, a response field, and

4   a ClientID field, and the ServerReleaseConfirm message is transmitted from the client to the digital

5   broadcasting server.

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1   17. (Currently Amended) A system controlling a network digital broadcasting service

2   comprises:

3   a client and a digital broadcasting server, the client directly requesting the digital

4   broadcasting server for a session connection, and establishing a session by receiving a confirmation

5   message for the session connection from the digital broadcasting server; and

6   the client directly requesting a program change from the digital broadcasting server and

7   receiving a confirmation message from the digital broadcasting server, when the digital broadcasting

8   server confirms the program change,

9   wherein a message requesting the program change and the confirmation message confirming

10   the program change each include a DSM-CC (Digital Storage Media-Command and Control)

11   message header field, the message for requesting the program change is a ProgramSelectRequest

12   message including: the DSM-CC (Digital Storage Media-Command and Control) message header

13   field, a Session ID (Identification) field, a STB (Set Top Box) status field, a broadcast ProgramId

14   field, and a Client ID field, and the ProgramSelectRequest message is transmitted from the client to

15   the digital broadcasting server..

1   18. (Original) The system according to claim 17, further comprising:

2   the client periodically receiving a message from the digital broadcasting server for checking

3   a status of the client, and directly delivering a client status confirmation message, indicative of the

4   status of the client, to the digital broadcasting server.

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1   19. (Original) The system according to claim 17, further comprising:

2   the client directly requesting the digital broadcasting server for a session termination and

3   terminating a session by receiving a confirmation message for the session termination from the

4   digital broadcasting server.

1   20. (Original) The system according to claim 17, further comprising:

2   the digital broadcasting server directly requesting the client for a session termination and

3   terminating a session by receiving a confirmation message for the session termination from the

4   client.

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